



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA, GALLE
THIRD EXAMINATION FOR MEDICAL DEGREES PART II – JULY 2006

PHARMACOLOGY – PAPER 1

Tuesday 25th July 2006

2 HOURS

Answer all FOUR Questions

Answer EACH PART in a SEPARATE BOOK

PART A

1.
 - 1.1. Explain the clinical indication/s for the following drugs, indicating the advantages and/or disadvantages.
 - 1.2.
 - 1.1.1. Using clozapine over chlorpromazine in schizophrenia with negative symptoms. (20 marks)
 - 1.1.2. Using carbamazepine over phenytoin in partial seizures. (20 marks)
 - 1.2.
 - 1.2.1. Name the different types of anticoagulants used in clinical practice. (10 marks)
 - 1.2.2. Indicate the mode of action and clinical uses of the drugs you mentioned in 1.2.1. (30 marks)
 - 1.2.3. List the common precautions you would take prior to the prescription of the drugs you mentioned 1.2.1. (20 marks)

PART B

2. A previously well, 65 year old man was admitted to the medical casualty ward with acute onset chest pain. He was diagnosed to have acute extensive anterior myocardial infarction and treated in the ICU. He was discharged on the seventh day after an uncomplicated hospital stay.
 - 2.1. List five drugs which should be prescribed on discharge of the patient. (25 marks)
 - 2.2. Select three out of the drugs you mentioned above and
 - 2.2.1. indicate the pharmacological basis for the use of the 3 drugs in this patient. (45 marks)
 - 2.2.2. list five side effects for each of the 3 drugs. (30 marks)

PART C

3. Describe the drug treatment of the following conditions, indicating the pharmacological basis for the use of the drugs and precautions to be taken during treatment. Give doses and routes of administration where indicated.
- 3.1. Acute severe attack of bronchial asthma in an adult. (35 marks)
 - 3.2. Primary pulmonary tuberculosis in an adult. (35 marks)
 - 3.3. Thyrotoxicosis in a young adult female. (30 marks)
4. Write short explanatory notes on the following. Illustrate your answer with examples of named drugs.
- 4.1. Specific and non-specific mechanisms by which drugs produce their actions in the body. (50 marks)
 - 4.2. Bioavailability of drugs. (25 marks)
 - 4.3. Precautions to be taken when prescribing drugs to a patient with renal insufficiency. (25 marks)
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